

## PATENT ABSTRACTS OF JAPAN

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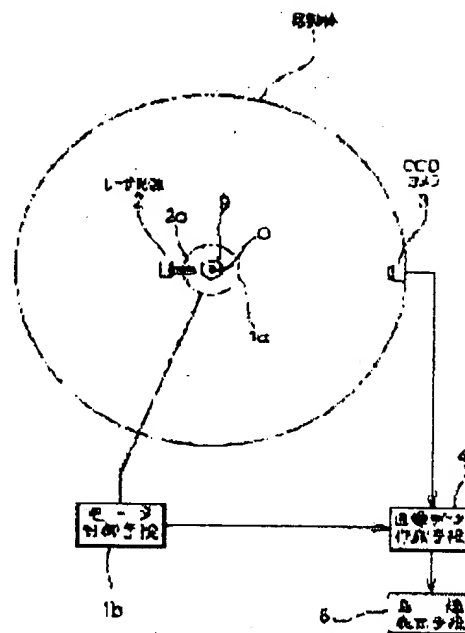
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## (54) OPTICAL CT IMAGE DEVICE

## (57)Abstract:

PURPOSE: To provide an optical CT image system with simple constitution by using a two-dimensional image sensor moved turnably in the periphery of an examinee.

CONSTITUTION: A turning body 1 turning around a turning center O of the center part of the examinee 9 is driven turnably by a stepping motor 1a controlled by a motor control means 1b. A laser beam source 2 which photoirradiates a living body with a near infrared ray with high transmittancy photoirradiates the examinee 9 advancing the turning center O via an optical fiber 2a. A CCD camera 3 as the two-dimensional image sensor mounted on the back side of the turning body 1 advancing the turning center O receives light propagated almost parallel with the radius direction out of the light radiated from the examinee 9 being diffused on the examinee 9 set parallel with the turning face of the turning body 1 by separating from the turning center O sufficiently far than the examinee 9. An image data generating means 4 fetches the light reception signal of the CCD camera 3 at every prescribed angle interval as an image signal, and generates the three-dimensional tomographic image data of the cross section of the examinee 9.



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